U.S. Army Corps
of Engineers

USACE Navigation Data/Information Workshop

July 7, 2005

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U.S. Army Corps
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Agenda

- Meeting Conduct, Purpose and Overview
- Domestic and Foreign Commerce
- State of Waterways and Data for Decisions
- Infrastructure
- Locks and Dredging

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Navigation Data Center Serves the Nation

- **Corps** - Supports Corps Missions of Navigation, Hydropower, Recreation, Environment, Regulatory and Flood Damage Reduction
- **Federal** – Federally Authorized Collection Agent with the Responsibility to Supply Data/Statistics to the Nation
- **International** - Represents U.S. in Statistics and Data Standards, Protocols, and Exchanges

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Navigation Data Center Customers

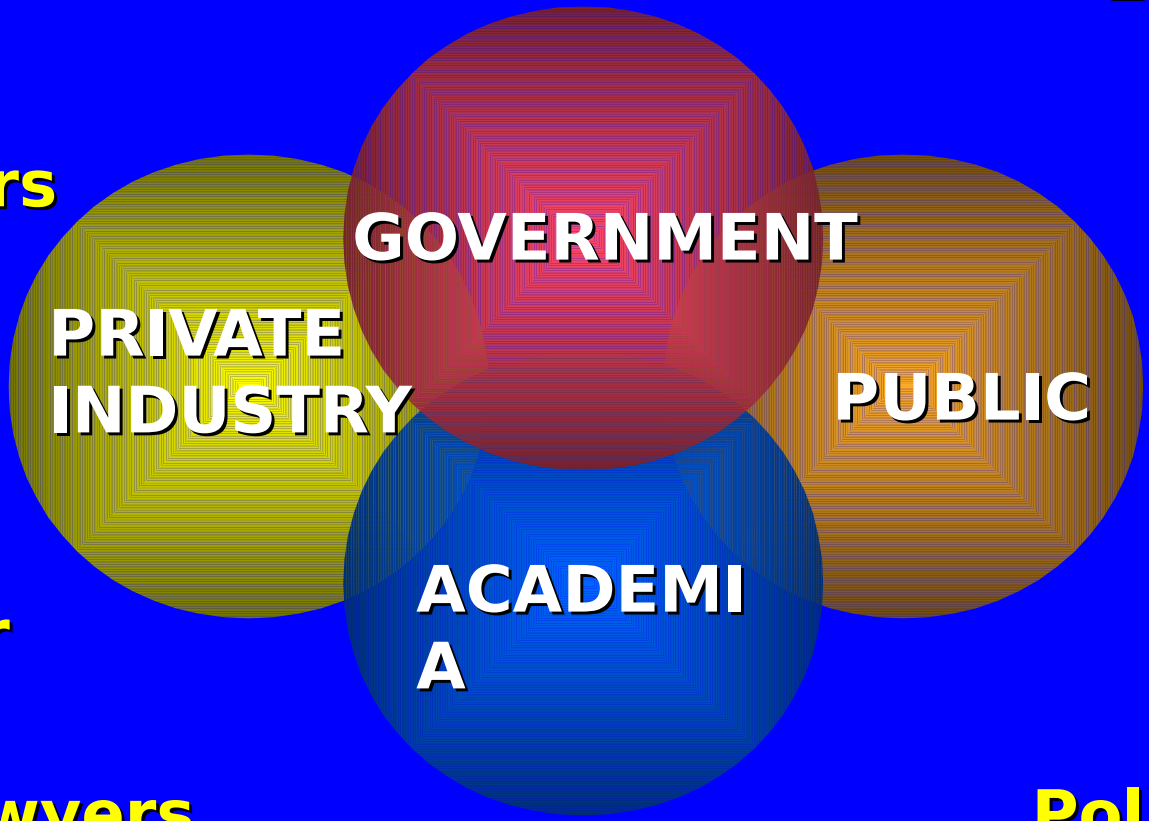
Program Managers

Planners

Economists

Operators

Engineers



Brokers

Taxing Agencies

Military

Lawyers

Policy Makers

Regulators

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Navigation Data Center
Corps Management Views

MONTHLY OPERATORS	ANNUAL EXECUTIVES	DECADE PLANNERS
Dredge Management	Budget Priorities	Investment Planning
Lock Management	Systems Management	Infrastructure Analysis
Vessel Operations	Users Board Advice	Mobilization Planning
Permit Applications	Tax Policy	Project Evaluation, Design and Engineering
Harbor Operations	Regulatory Policy	Recovery Fee Analysis
Emergency Operations	Legislative Support	Intelligence Analysis
Hydropower Management	O&M Policy And Procedures	
Recreation Management	Energy Policy	
Environmental Compli.		
Homeland Security		

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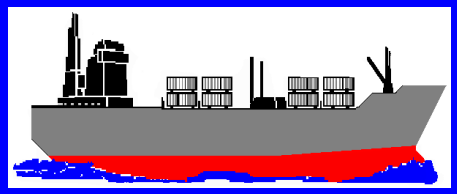
Navigation Data Center Work Flow

Collection

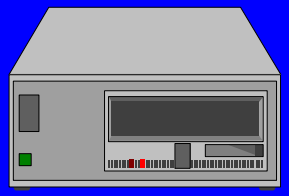


Partnership with :
- Carriers
- Customs
- Port & Terminal Operators
- Canada
- Corps Operations
- Corps

Input

Supported by :
- Contractors
- Customs/Marad
- Corps Offices
- NDC Staff

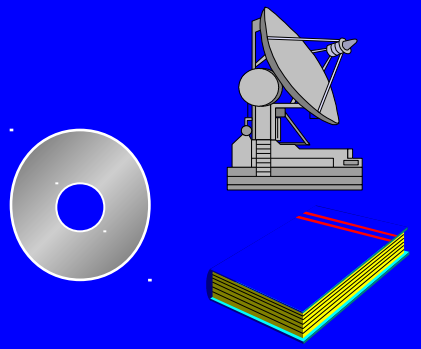
Data Processing



Internal Activities:
- Editing
- Enforcement
- Routing
- Information

Generation
- Publishing

Output



- Fact Card
- WCUS
- WTLUS
- Lock Info
- Port Facilities
- Dredging Stats
- Other CW

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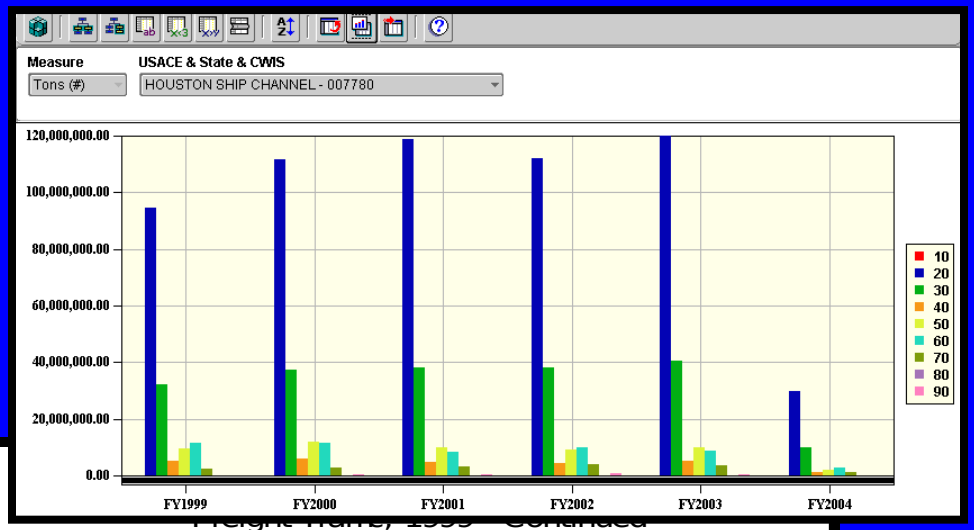
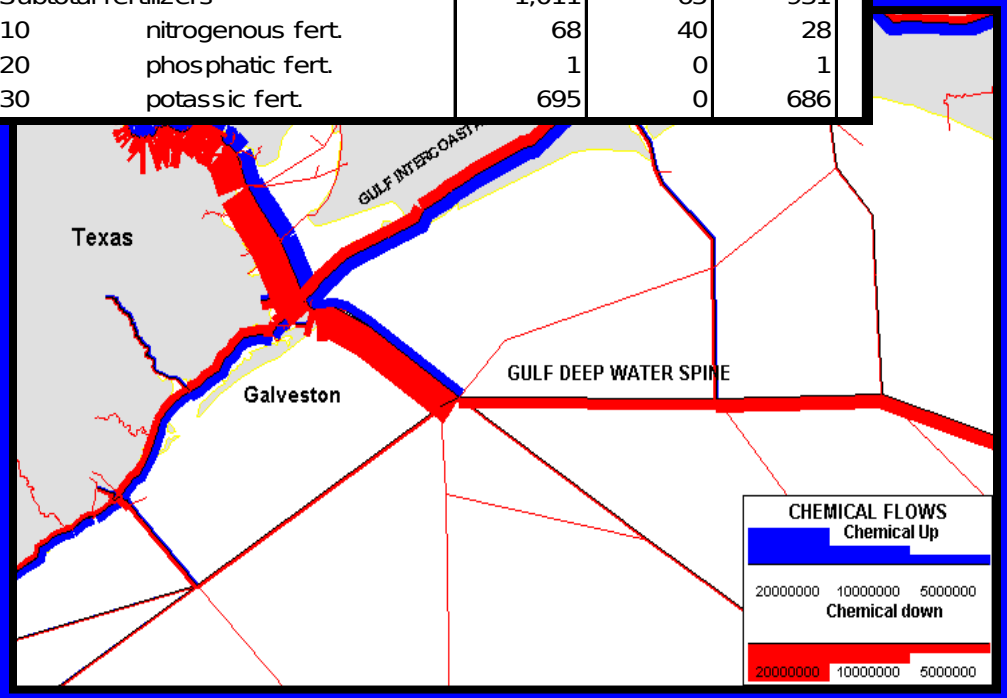
Navigation Data Overview

- Expenditures & Activities
- Outputs of Waterborne Commerce: Origin to Destination, Trips by Draft, Tonnages & Commodities…
- Inventory of Projects & American Flagged Vessels
- Performance: Lock Delay and Unavailability, Cost per Ton, per Trip, per Ton Mile…



(thousand short tons)

Commodity		Total	Foreign	
			Imports	Exports
Total chemicals and related products		13,227	3,722	9,161
Subtotal fertilizers		1,011	65	931
3110	nitrogenous fert.	68	40	28
3120	phosphatic fert.	1	0	1
3130	potassic fert.	695	0	686



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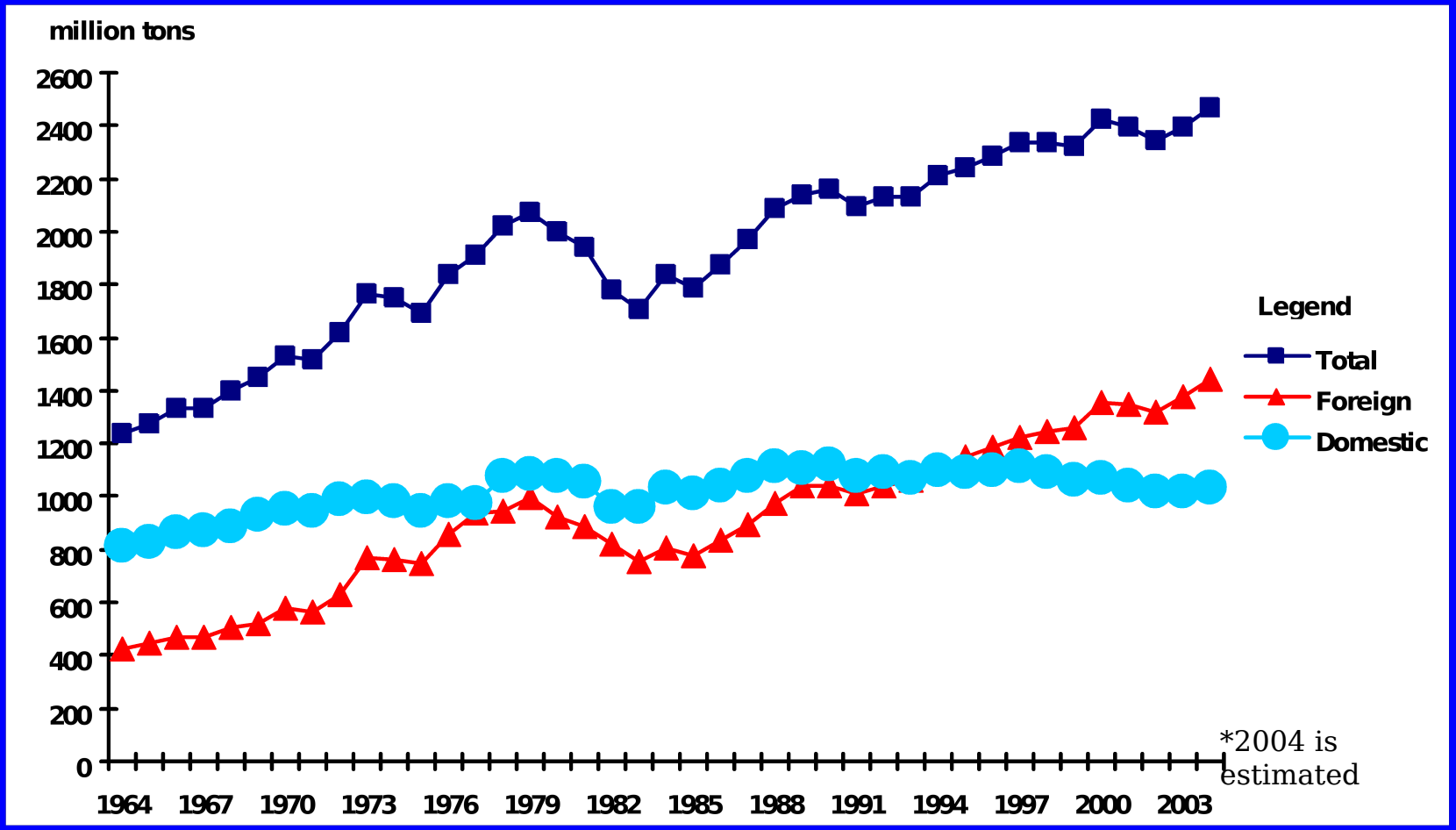
Total Waterborne Commerce of the U.S.

1964-2004* (million short tons)



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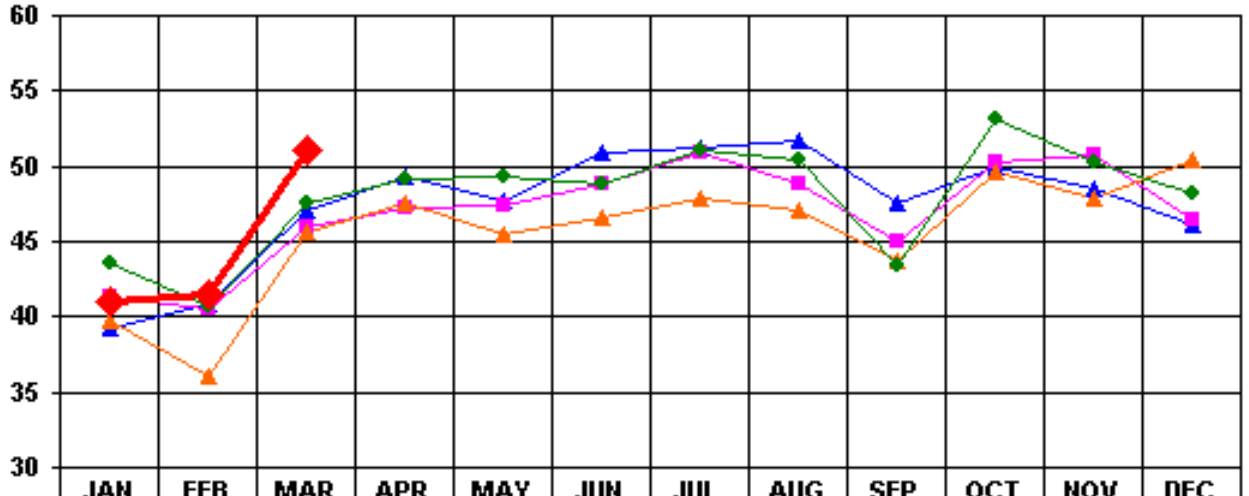
Welcome to the US Army Corps of Engineers

Navigation Data Center

Waterborne Commerce Statistics Center

All Commodities

Monthly Tonnage Indicator for Internal U.S. Waterways



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2001	39.3	40.9	47.1	49.4	47.7	50.9	51.2	51.8	47.5	49.9	48.5	46.1
2002	41.3	40.5	45.9	47.2	47.4	48.8	50.9	48.8	44.9	50.3	50.7	46.4
2003	39.7	36.0	45.7	47.5	45.5	46.6	47.9	47.1	43.7	49.6	47.9	50.5
2004	43.6	40.7	47.5	49.2	49.4	48.9	51.1	50.4	43.5	53.2	50.3	48.2
2005	41.0	41.5	51.0									

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Navigation Infrastructure

- Inventory of over 200 Commercial Ports, 9,000+ Waterway Facilities, Corps Locks and Soon Project Profiles…

- Outputs: Waterway Facility Characteristics related to our Customers

- Supports Quality Assurance of Waterborne Commerce Data, Permits, Budget and Homeland Security

Port Facilities on the Mississippi River Mile 95 to 104

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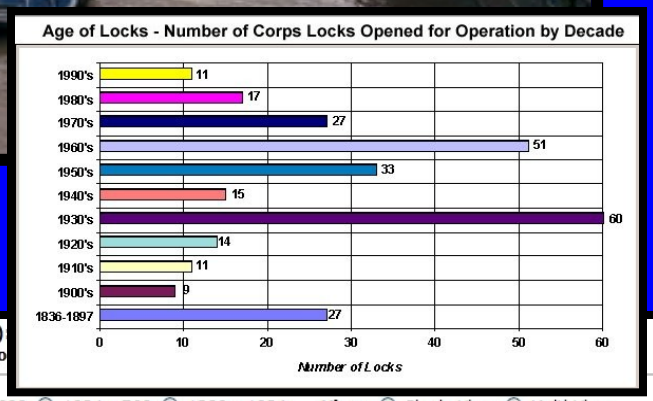
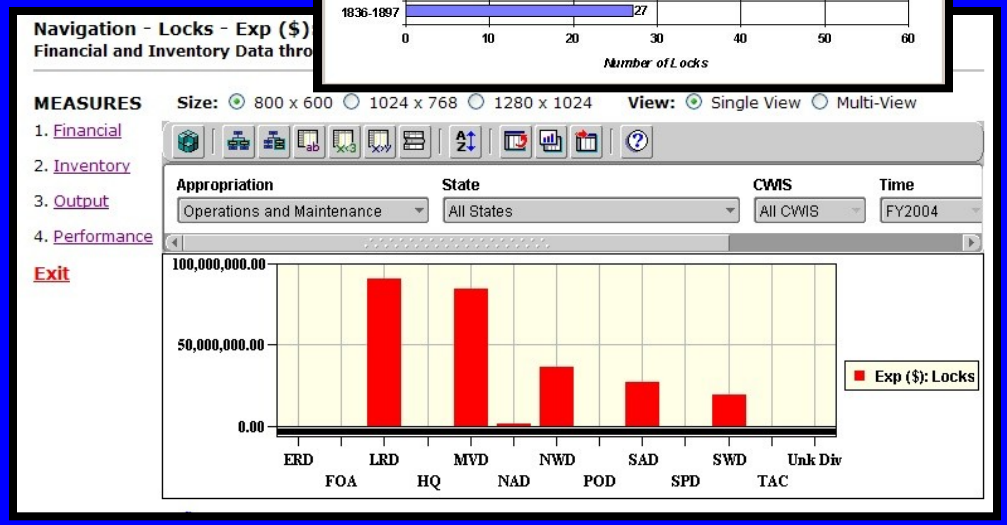
Navigation

Locks

- Expenditures by Division, District, Lock & Activity
- Inventory of Locks & Chambers & Characteristics
- Outputs: Lockages, Vessels, Commodities, Tons…
- Performance: Processing and Delay Times; Availability (Scheduled & Unscheduled Closures)…





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Navigation Dredging

- Expenditures by Division, District & Activity
- Inventory of Equipment & Contractors
- Outputs by Quantity & Equipment
- Performance: Dredging Trends, Cost/CY, Small Business Goals, Minimum Fleet Requirements…

District	Data	1997	1998	1999	2000
ALASKA	Num of Contracts	5	1	5	2
	Cubic Yards	410,000	20,000	1,979,000	52,000
	Dollars (Bid)	$9,550,634	$3,456,000	$18,079,975	$5,349,400
BALTIMORE	Num of Contracts	7	6	8	6
	Cubic Yards	7,555,581	4,434,037	3,773,754	9,745,624
	Dollars (Bid)	$60,433,140	$26,408,161	$23,510,922	$65,264,042
BUFFALO	Num of Contracts	13	8	13	11
	Cubic Yards	1,560,000	2,015,000	2,247,195	1,670,000
	Dollars (Bid)	$6,395,295	$6,641,770	$7,716,933	$5,533,946
CHARLESTON	Num of Contracts	6	1	3	1
	Cubic Yards	8,260,000	1,400,000	26,988,500	1,645,200
	Dollars (Bid)	$19,504,676	$11,079,660	$123,329,765	$3,599,994
CHICAGO	Num of Contracts	1	1	2	4
	Cubic Yards	59,000	45,000	54,000	433,200
	Dollars (Bid)	$288,000	$371,000	$732,286	$4,548,503

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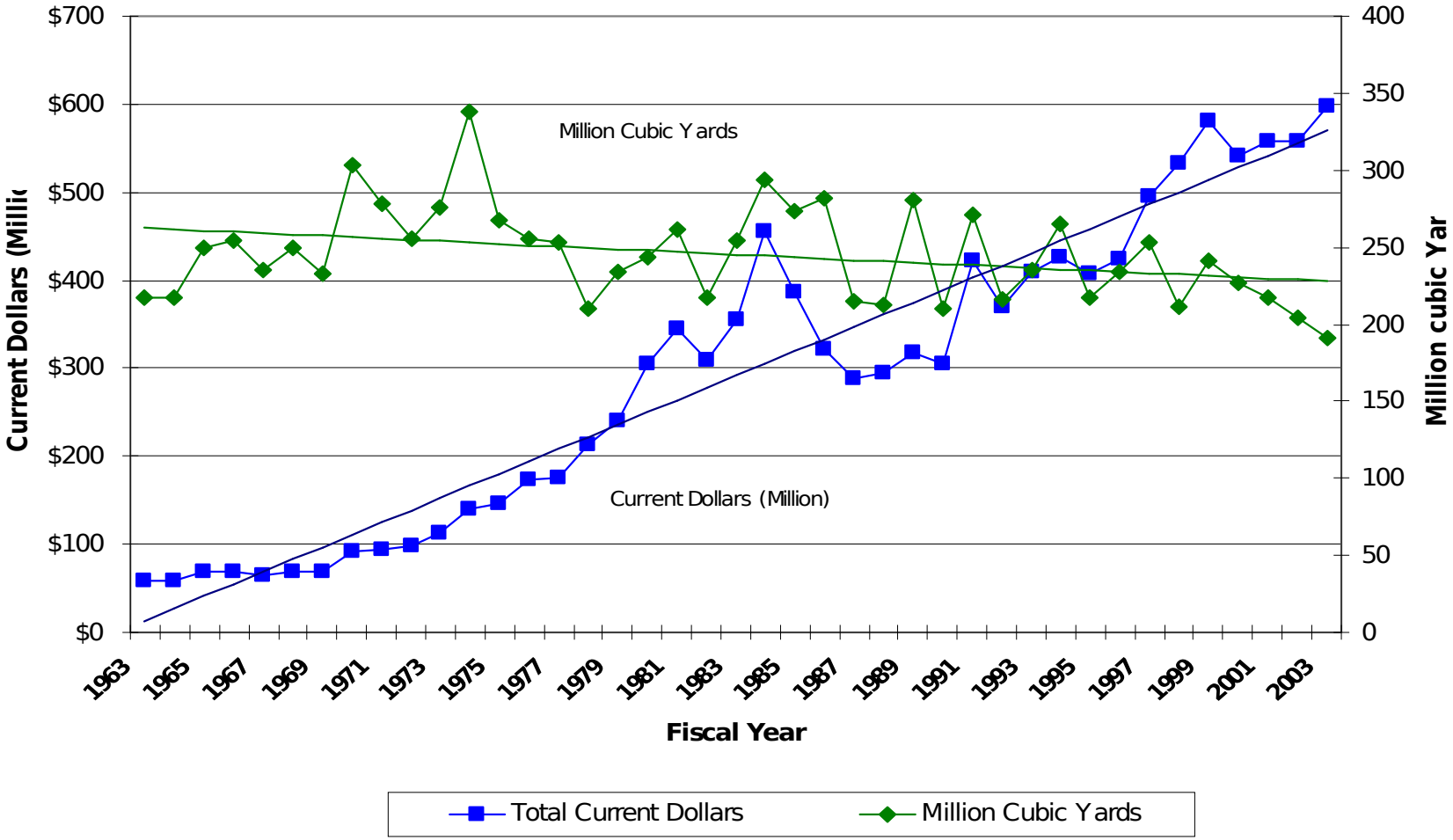
Maintenance Dredging Current Dollar Expenditures and Quantity for Corps Projects 1963-2003



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Corps Internal On-Demand System

- Provides Corps Business Lines Expenditures, Activities, Inventories, Outputs and Performance Information
- Provides Single Gateway for Data Input and Access
- Integrates Legacy Information Systems
- Eliminates Duplication of Data Entry
- Provides Corps-wide Access to Business Information and Knowledge